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Sharmistha Bhadra

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Group: Full Member

Department: Electrical & Computer Engineering

Area(s): Sustainable Industrial Processes & Manufacturing

Current research:

Sharmistha Bhadra received the Ph.D. degree in electrical engineering from the University of Manitoba in 2015. Before joining to McGill University, she was a NSERC postdoctoral fellow in the Department of Electrical and Computer Engineering at the University of British Columbia. Her research interest includes printed electronics, sensors and actuators, microelectronics, RF/microwave circuits & systems.

Aiming to develop low-cost innovative technology solutions, Dr. Bhadra researches printed and flexible electronics, micro/nanoelectronics, sensors and actuators, and RF/microwave circuits and systems. In particular, she is interested to develop low-cost, low-power bio and chemical sensors and medical implants.

Areas of interest:

- Non-destructive detection of fish spoilage using a wireless basic volatile sensor
- Monitoring acidic and basic volatile concentration using a pH-electrode based wireless passive sensor

- Fluid embeddable coupled coil sensor for wireless pH monitoring in a bioreactor
- Corrosion potential sensor for remote monitoring of civil structure based on printed circuit board
- A wireless passive sensor for temperature compensated remote pH monitoring
- A wireless embedded passive sensor for monitoring the corrosion potential of reinforcing steel
- Electrode potential-based coupled coil sensor for remote pH monitoring
- Wireless passive sensor for remote pH monitoring
- Near field chip-less tag for food quality monitoring
- An inductively coupled passive tag for remote basic volatile sensing
- Wireless passive sensor for pH monitoring inside a small bioreactor
- A wireless volatile organic absorption pH sensor using a mixed metal oxide electrode
- An embedded inductively coupled printed circuit board based corrosion potential sensor
- A wireless passive pH sensor for real-time in vivo milk quality monitoring
- Inductively coupled corrosion potential sensor for steel reinforced concrete with time domain gating interrogation
- A wireless passive sensor for pH monitoring employing temperature compensation
- A wireless passive pH sensor based on pH electrode potential measurement
- Coupled coil sensor for detecting surface corrosion on steel reinforcement
- Coupled resonant coil sensors with increased interrogation distance

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